

Silvia Scaglione

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6924093/publications.pdf>

Version: 2024-02-01

74
papers

2,638
citations

218677
26
h-index

197818
49
g-index

74
all docs

74
docs citations

74
times ranked

4506
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of scaffold internal structure on in vivo bone formation in macroporous calcium phosphate bioceramics. <i>Biomaterials</i> , 2006, 27, 3230-3237.	11.4	451
2	Osteoinduction of Human Mesenchymal Stem Cells by Bioactive Composite Scaffolds without Supplemental Osteogenic Growth Factors. <i>PLoS ONE</i> , 2011, 6, e26211.	2.5	178
3	Microenvironment complexity and matrix stiffness regulate breast cancer cell activity in a 3D in vitro model. <i>Scientific Reports</i> , 2016, 6, 35367.	3.3	172
4	Reconstruction of Extensive Long Bone Defects in Sheep Using Resorbable Bioceramics Based on Silicon Stabilized Tricalcium Phosphate. <i>Tissue Engineering</i> , 2006, 12, 1261-1273.	4.6	120
5	A new cell-laden 3D Alginate-Matrigel hydrogel resembles human breast cancer cell malignant morphology, spread and invasion capability observed <i>in vivo</i> . <i>Scientific Reports</i> , 2018, 8, 5333.	3.3	118
6	Osteogenic Differentiation of MSC through Calcium Signaling Activation: Transcriptomics and Functional Analysis. <i>PLoS ONE</i> , 2016, 11, e0148173.	2.5	99
7	In vitro models replicating the human intestinal epithelium for absorption and metabolism studies: A systematic review. <i>Journal of Controlled Release</i> , 2021, 335, 247-268.	9.9	80
8	Short-Time Survival and Engraftment of Bone Marrow Stromal Cells in an Ectopic Model of Bone Regeneration. <i>Tissue Engineering - Part A</i> , 2010, 16, 489-499.	3.1	77
9	Enhanced mechanical performances and bioactivity of cell laden-graphene oxide/alginate hydrogels open new scenario for articular tissue engineering applications. <i>Carbon</i> , 2017, 115, 608-616.	10.3	69
10	Order versus Disorder: in vivo bone formation within osteoconductive scaffolds. <i>Scientific Reports</i> , 2012, 2, 274.	3.3	67
11	Effects of fluid flow and calcium phosphate coating on human bone marrow stromal cells cultured in a defined 2D model system. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 86A, 411-419.	4.0	62
12	Engineering of osteoinductive grafts by isolation and expansion of ovine bone marrow stromal cells directly on 3D ceramic scaffolds. <i>Biotechnology and Bioengineering</i> , 2006, 93, 181-187.	3.3	56
13	Scaffold microstructure effects on functional and mechanical performance: Integration of theoretical and experimental approaches for bone tissue engineering applications. <i>Materials Science and Engineering C</i> , 2016, 68, 872-879.	7.3	51
14	Regulation of Human Mesenchymal Stem Cell Functions by an Autocrine Loop Involving NAD ⁺ Release and P2Y ₁₁ -Mediated Signaling. <i>Stem Cells and Development</i> , 2011, 20, 1183-1198.	2.1	50
15	Efficacy of thermoresponsive, photocrosslinkable hydrogels derived from decellularized tendon and cartilage extracellular matrix for cartilage tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e159-e170.	2.7	50
16	Preparation and properties of macroporous brushite bone cements. <i>Acta Biomaterialia</i> , 2009, 5, 2161-2168.	8.3	43
17	Towards excimer-laser-based stereolithography: a rapid process to fabricate rigid biodegradable photopolymer scaffolds. <i>Journal of the Royal Society Interface</i> , 2012, 9, 3017-3026.	3.4	40
18	3D Porous Gelatin/PVA Hydrogel as Meniscus Substitute Using Alginate Micro-Particles as Porogens. <i>Polymers</i> , 2018, 10, 380.	4.5	40

#	ARTICLE	IF	CITATIONS
19	Oriented collagen nanocoatings for tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 114, 372-378.	5.0	39
20	“Green-reduced” graphene oxide induces in vitro an enhanced biomimetic mineralization of polycaprolactone electrospun meshes. <i>Materials Science and Engineering C</i> , 2018, 93, 1044-1053.	7.3	38
21	An interaction between hepatocyte growth factor and its receptor (c-MET) prolongs the survival of chronic lymphocytic leukemic cells through STAT3 phosphorylation: a potential role of mesenchymal cells in the disease. <i>Haematologica</i> , 2011, 96, 1015-1023.	3.5	37
22	Regulatory Influence of Scaffolds on Cell Behavior: How Cells Decode Biomaterials. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 151-159.	1.6	37
23	Cell-Laden Hydrogel as a Clinical-Relevant 3D Model for Analyzing Neuroblastoma Growth, Immunophenotype, and Susceptibility to Therapies. <i>Frontiers in Immunology</i> , 2019, 10, 1876.	4.8	35
24	Design and characterization of a tissue-engineered bilayer scaffold for osteochondral tissue repair. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015, 9, 1182-1192.	2.7	33
25	Design of Decorated Self-Assembling Peptide Hydrogels as Architecture for Mesenchymal Stem Cells. <i>Materials</i> , 2016, 9, 727.	2.9	32
26	High blood flow shear stress values are associated with circulating tumor cells cluster disaggregation in a multi-channel microfluidic device. <i>PLoS ONE</i> , 2021, 16, e0245536.	2.5	31
27	MgCHA particles dispersion in porous PCL scaffolds: <i>in vitro</i> mineralization and <i>in vivo</i> bone formation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 291-303.	2.7	30
28	A composite material model for improved bone formation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010, 4, 505-513.	2.7	25
29	Atomic force microscopy for biomechanical and structural analysis of human dermis: A complementary tool for medical diagnosis and therapy monitoring. <i>Experimental Dermatology</i> , 2018, 27, 150-155.	2.9	25
30	Comparison Between Franz Diffusion Cell and a novel Micro-physiological System for In Vitro Penetration Assay Using Different Skin Models. <i>SLAS Technology</i> , 2022, 27, 161-171.	1.9	24
31	Improvement in volume estimation from confocal sections after image deconvolution. <i>Microscopy Research and Technique</i> , 2004, 64, 151-155.	2.2	23
32	Mesenchymal stem cell culture in convection-enhanced hollow fibre membrane bioreactors for bone tissue engineering. <i>Journal of Membrane Science</i> , 2011, 379, 341-352.	8.2	21
33	Rapid fabrication of rigid biodegradable scaffolds by excimer laser mask projection technique: a comparison between 248 and 308 nm. <i>Laser Physics</i> , 2013, 23, 035602.	1.2	20
34	Bioactive TGF- β 1/HA Alginate-Based Scaffolds for Osteochondral Tissue Repair: Design, Realization and Multilevel Characterization. <i>Journal of Applied Biomaterials and Functional Materials</i> , 2016, 14, 42-52.	1.6	20
35	Elastin-Coated Biodegradable Photopolymer Scaffolds for Tissue Engineering Applications. <i>BioMed Research International</i> , 2014, 2014, 1-9.	1.9	19
36	Topographical Features of Graphene-Oxide-Functionalized Substrates Modulate Cancer and Healthy Cell Adhesion Based on the Cell Tissue of Origin. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 41978-41985.	8.0	19

#	ARTICLE	IF	CITATIONS
37	A combined low-frequency electromagnetic and fluidic stimulation for a controlled drug release from superparamagnetic calcium phosphate nanoparticles: potential application for cardiovascular diseases. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180236.	3.4	19
38	Hydroxyapatite-Coated Polycaprolacton Wide Mesh as a Model of Open Structure for Bone Regeneration. <i>Tissue Engineering - Part A</i> , 2009, 15, 155-163.	3.1	18
39	Improved cell activity on biodegradable photopolymer scaffolds using titanate nanotube coatings. <i>Materials Science and Engineering C</i> , 2014, 44, 38-43.	7.3	18
40	In vitro demonstration of intestinal absorption mechanisms of different sugars using 3D organotypic tissues in a fluidic device. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2020, 37, 255-264.	1.5	18
41	In vivo lamellar bone formation in fibre coated MgCHAâ€PCL-composite scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 117-128.	3.6	17
42	Tumor Microenvironment and Hydrogel-Based 3D Cancer Models for In Vitro Testing Immunotherapies. <i>Cancers</i> , 2022, 14, 1013.	3.7	17
43	A novel scaffold geometry for chondral applications: Theoretical model and in vivo validation. <i>Biotechnology and Bioengineering</i> , 2014, 111, 2107-2119.	3.3	16
44	3D fluid-dynamic ovarian cancer model resembling systemic drug administration for efficacy assay. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2021, 38, 82-94.	1.5	15
45	GABA receptor subunits identified in by immunofluorescence confocal microscopy. <i>FEMS Microbiology Letters</i> , 2004, 238, 449-453.	1.8	14
46	A similarity based approach for application DoS attacks detection. , 2013, , .		14
47	Chemical and morphological gradient scaffolds to mimic hierarchically complex tissues: From theoretical modeling to their fabrication. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2286-2297.	3.3	14
48	Interfacial effect of extremely low frequency electromagnetic fields (EM-ELF) on the vaporization step of carbon dioxide from aqueous solutions of body simulated fluid (SBF). <i>Bioelectromagnetics</i> , 2003, 24, 251-261.	1.6	13
49	A simple non invasive computerized method for the assessment of bone repair within osteoconductive porous bioceramic grafts. <i>Biotechnology and Bioengineering</i> , 2005, 92, 189-198.	3.3	13
50	A Three-Dimensional Traction/Torsion Bioreactor System for Tissue Engineering. <i>International Journal of Artificial Organs</i> , 2010, 33, 362-369.	1.4	13
51	3D Perfusable Hydrogel Recapitulating the Cancer Dynamic Environment to in Vitro Investigate Metastatic Colonization. <i>Polymers</i> , 2020, 12, 2467.	4.5	13
52	Titanate nanotube coatings on biodegradable photopolymer scaffolds. <i>Materials Science and Engineering C</i> , 2013, 33, 2460-2463.	7.3	12
53	A Grid-based solution for management and analysis of microarrays in distributed experiments. <i>BMC Bioinformatics</i> , 2007, 8, S7.	2.6	10
54	Guidelines for managing data and processes in bone and cartilage tissue engineering. <i>BMC Bioinformatics</i> , 2014, 15, S14.	2.6	8

#	ARTICLE	IF	CITATIONS
55	a ⁺ -Si:H produced by double ion-beam sputtering. Journal of Non-Crystalline Solids, 1983, 59-60, 723-726.	3.1	6
56	GEMMA " A Grid environment for microarray management and analysis in bone marrow stem cells experiments. Future Generation Computer Systems, 2007, 23, 382-390.	7.5	6
57	Differences in Chemical Composition and Internal Structure Influence Systemic Host Response to Implants of Biomaterials. International Journal of Artificial Organs, 2011, 34, 422-431.	1.4	5
58	Composite Electrospun Nanofibers for Influencing Stem Cell Fate. Methods in Molecular Biology, 2013, 1058, 25-40.	0.9	5
59	A Web-based and Grid-enabled dChip version for the analysis of large sets of gene expression data. BMC Bioinformatics, 2008, 9, 480.	2.6	4
60	Characterization of a bioinspired elastin-polypropylene fumarate material for vascular prostheses applications. Proceedings of SPIE, 2013, , .	0.8	3
61	Rapid Prototyping for the Engineering of Osteochondral Tissues. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2017, , 163-185.	1.0	2
62	Composite scaffolds for bone and osteochondral defects. , 2019, , 297-337.		2
63	Bioinformatics approach for data management about bone cells grown on substitute materials. EMBnet Journal, 2012, 18, 148.	0.6	2
64	Editorial: Recent 3D Tumor Models for Testing Immune-Mediated Therapies. Frontiers in Immunology, 2021, 12, 798493.	4.8	2
65	A three-dimensional traction/torsion bioreactor system for tissue engineering. International Journal of Artificial Organs, 2010, 33, 362-9.	1.4	2
66	The State of the Art in Biological Image Analysis. , 2006, , 201-206.		1
67	Network integration of data and analysis of oncology interest. Journal of Integrative Bioinformatics, 2006, 3, 45-55.	1.5	1
68	Biomimetic Bone Graft with Higher Bioactivity. Key Engineering Materials, 2007, 330-332, 943-946.	0.4	1
69	Cell-Biomaterial Interactions Reproducing a Niche. , 0, , .		1
70	“3D Cloud” in Life Sciences: An innovative framework for remote 2D/3D visualization and collaboration. , 2012, , .		1
71	Clinical Applications of Bone Tissue Engineering. , 2009, , 1-18.		1
72	Stem cells and tissue scaffolds for bone repair. , 2009, , 291-312.		0

#	ARTICLE	IF	CITATIONS
73	Reconstruction of Extensive Long Bone Defects in Sheep Using Resorbable Bioceramics Based on Silicon Stabilized Tricalcium Phosphate. Tissue Engineering, 2006, .	4.6	0
74	183P A novel human immunocompetent platform for immunotherapy screening. Annals of Oncology, 2021, 32, S1461-S1462.	1.2	0